

88001

MEMORANDUM

Date: February 6, 1988

To: B. Halley, H. Knebel, D. Folger, T. Aldrich, B. Irwin,  
S. Barton, J. Newell, T. O'Brien, G. Sexton, N. Soderberg,  
G. Hill (RESTON), B. Rowland (RESTON),  
B. Henry (DMA), R. Nolet (DMA),  
T. Cocke (State Dept.)

From: B. Irwin

Subject: Cruise Report R/V Starella

Cruise No. : S1-88-HT

Parent Project: Defense Mapping Agency Gravity

Funding Agency: Defense Mapping Agency

Contract No.: HTCPO-84 Annex C

Area of Operation: southwest Haiti.

Cruise Start/End Dates; Ports: 29 Jan 88 - La Guaira, Venezuela  
06 Feb 88 - Roosevelt Roads, P.R.

Chief Scientist: Barry Irwin

Scientific Party; Affiliation:	Barry Irwin	USGS-AMG
	Dave Folger	USGS-AMG
	Robert Rowland	USGS-REST
	Juan Collado	USGS-AMG/PR

Ships Captain: John Nichols

Purpose: Collection of gravity, magnetics and bathymetry data  
in and around the waters of Haiti as specified by  
DMA requirements.

Equipment: USGS Gravity Data Logging System  
LaCoste and Romberg Air/Sea Gravimeters S-26 and S-41  
Geometrics Magnetometer  
Raytheon PTR 12KHz Bathymetry System  
General Electric 810 Correlation Sonar  
Sperry MK29 Gyrocompass  
Magnavox System 5000 Integrated Navigation System

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Navigation Techniques: General Electric 810 Correlation Sonar  
and Sperry Mk 29 Gyrocompass with GPS  
and Transit Satellite control.

Tabulated Information: Days at sea: 10  
Kilometers surveyed: 1898  
Kilometers steamed: 2244

Narrative: The ship departed Port of Spain and proceeded to the surops area on 4 Dec 1987. Several lines were shortened on the landward end due to shallow water. The presence of oil rigs off the southeast corner of Trinidad required adjustments of the line tracks. Surveying was completed on 13 Dec 87 and the ship returned to Port of Spain the following day. Final gravity land ties were completed in Port of Spain on 16 Dec 1987 to tie ship meter data with a known gravity station and to verify the accuracy of previous land ties performed in the same area.